

Version With Markings to Show Changes Made

[F] We Claim:

5 13. The cooling system of claim 11, wherein the means for actuating is configured
to retractably actuate the means for absorbing toward and away from the circuit
board.

10 14. A method for cooling a circuit board including a first heat source and a second
heat source, comprising:

retractably actuating an actuator carrying a means for absorbing heat such that
the means for absorbing heat is moved into conforming thermal contact with the
first and second heat sources on the circuit board.

15 [~~absorbing heat dissipated from the first and second heat sources using the~~
~~means for absorbing heat.~~]

II. ELECTION OF SPECIES REQUIREMENT

In the Office Action, the Examiner required an election of species, under 35 U.S.C. § 121, between the four different species listed below:

- 5 Figures 1A - 3,
 Figures 4 - 5,
 Figure 6,
 Figure 7.

10 In response to the requirement of election of species, Applicants elect the species corresponding to Figures 1A - 3. If generic claims covering all species are not found allowable, Applicants intend to file claims directed to the remaining species in continuation or divisional applications.

15 Per the election of species requirement listed in the Office Action, Applicants identify the following claims as readable on the elected species: 1-3, 6-8, and 11-15. Please withdraw claims 4-5 and 9-10 until such time as a generic claim is found allowable.

20 III. REMARKS

 Please note that in the claims, the words "I Claim" have been amended to "We Claim." Additionally, claims 13 and 14 have been amended to better claim the invention.

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In view of the foregoing, examination on the merits is requested at an early date.

Respectfully submitted,

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We Claim:

1. A cooling system for cooling a circuit board including a first heat source and a second heat source, comprising:

21 5 cooling apparatus configured to absorb heat dissipated from the first and second heat sources; and

an actuator configured to actuate the cooling apparatus into conforming thermal contact with the first and second heat sources on the circuit board.

10 2. The cooling system of claim 1, wherein:

the cooling apparatus comprises a first cooled body and a second cooled body;

the actuator is configured to actuate the first cooled body into conforming thermal contact with the first heat source; and

15 the actuator is further configured to actuate the second cooled body into conforming thermal contact with the second heat source.

3. The cooling system of claim 2, wherein:

the actuator comprises a support configured to retractably actuate toward and away from the circuit board; and

20 the first and second cooled bodies are compliantly mounted to the support.

4. The cooling system of claim 1, wherein the cooling apparatus comprises a thermally conductive body composed of a compliant material, and wherein the cooling apparatus adaptively conforms to the first and second heat sources to compensate for
25 any differences in their height with respect to the circuit board.

5. The cooling system of claim 4, wherein the cooling apparatus defines a non-planar surface that substantially conforms to the height of the first and second heat sources with respect to the circuit board.

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6. The cooling system of claim 1, and further including a third heat source, the first heat source and the second heat source being on a first side of the circuit board, and the third heat source being on a second side of the circuit board and further comprising:

5 a second cooling apparatus configured to absorb heat dissipated from the third heat source; and

10 a second actuator configured to actuate the second cooling apparatus into conforming thermal contact with the third heat source on the circuit board.

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10 7. The cooling system of claim 6, wherein:

the first cooling apparatus comprises a first cooled body and a second cooled body;

the second cooling apparatus comprises a third cooled body;

the first actuator is configured to actuate the first cooled body into conforming thermal contact with the first heat source;

15 the first actuator is further configured to actuate the second cooled body into conforming thermal contact with the second heat source; and

the second actuator is configured to actuate the third cooled body into conforming thermal contact with the third heat source.

20 8. The cooling system of claim 7, wherein:

the first actuator comprises a first support configured to retractably actuate toward and away from the first side of the circuit board;

the first and second cooled bodies are compliantly mounted to the first support;

25 the second actuator comprises a second support configured to retractably actuate toward and away from the second side of the circuit board; and

the third cooled body is compliantly mounted to the second support.

9. The cooling system of claim 6, wherein the first and second cooling apparatuses each comprise a thermally conductive body composed of a compliant material, and wherein the first cooling apparatus adaptively conforms to the first and second heat sources to compensate for any differences in their height with respect to the circuit board.

10. The cooling system of claim 9, wherein the first cooling apparatus defines a non-planar surface that substantially conforms to the height of the first and second heat sources with respect to the circuit board.

11. A cooling system for cooling a circuit board including a first heat source and a second heat source, comprising:

a means for absorbing heat dissipated from the first and second heat sources; and

a means for actuating the means for absorbing into conforming thermal contact with the first and second heat sources on the circuit board.

12. The cooling system of claim 11, wherein:

the means for absorbing comprises a first cooled body and a second cooled body;

the means for actuating is configured to actuate the first cooled body into conforming thermal contact with the first heat source; and

the means for actuating is further configured to actuate the second cooled body into conforming thermal contact with the second heat source.

13. The cooling system of claim 11, wherein the means for actuating is configured to retractably actuate the means for absorbing toward and away from the circuit board.

14. A method for cooling a circuit board including a first heat source and a second heat source, comprising:

retractably actuating an actuator carrying a means for absorbing heat such that the means for absorbing heat is moved into conforming thermal contact with the first and second heat sources on the circuit board.

15. The method of claim 14, wherein:

the means for absorbing comprises a first cooled body and a second cooled body; and

in the step of retractably actuating, the actuator is configured to actuate the first cooled body into conforming thermal contact with the first heat source, and the means for actuating is further configured to actuate the second cooled body into conforming thermal contact with the second heat source.